

D-HR Series

High Insulation Resistance, High Voltage Relays - 10kV & 15kV





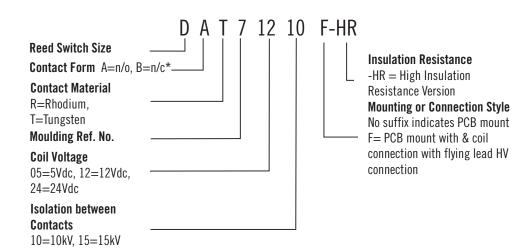
Very high isolation voltages - up to 15kV - are achieved through the use of high vacuum reed switches with either rhodium or tungsten contacts which make these relays suitable for high reliability applications, such as cardiac defibrillators, test equipment and high voltage power supplies.

The rhodium contact relays have low contact resistance, while the tungsten contact relays can switch higher voltages.

- 10kV or 15kV Isolation
- Low Contact Resistance
- 1x10¹⁴ Ohms Minimum Insulation Resistance
- PCB or Flying Leads Connections
- Ideal for sensitive test and measurement circuits which require low leakage current losses

Contact Specification	Unit	Condition	ndition 10kV SPNO			10kV SPNC			15kV SPNO*		
Contact Material			Rho	dium	Tungsten	Rhodiu	m Tung	gsten	Tun	gsten	
Isolation across contacts	s kV	DC or AC peak	10		10	10	10		15		
Switching Power Max.	W		50		50	50	50		50		
Switching Voltage Max.	٧	DC or AC peak	1000		7000	1000 7000		10000			
Switching Current Max.	Α	DC or AC peak	3		2	3	2		2		
Carry Current Max	Α	DC or AC peak	4		3	4	3		2		
Capacitance across	pF	coil to screen	<0.	2	<0.2	<0.2	< 0.2		<0.	2	
contacts		grounded									
Lifetime Operations	6	dry switching	10°		10 ⁹	10°	10°		10°		
'		50W switching	10 ⁶		10^{6}	10 ⁶	10^6		10 ⁶		
Contact Resistance	act Resistance m Ω max (typical)		50 (15) 2		250(100)	50 (15) 250(100)		00)	250 (100)		
Insulation Resistance			1x10 ¹⁴			1x10 ¹⁴		1x10 ¹⁴			
					1/120		IXIO				
Coil Specification			5V	12V	24V	5V	12V	24V	5V	12V	24V
Must Operate Voltage	٧	DC	3.7	9	20	3.7	9	20	3.7	9	20
Must Release Voltage	٧	DC	0.5	1.25	i 4	0.5	1.25	4	0.5	1.25	4
Operate Time	ms	diode fitted	3.0	3.0	3.0	2.0	2.0	2.0	3.0	3.0	3.0
Release Time	ms	diode fitted	2.0	2.0	2.0	3.0	3.0	3.0	2.0	2.0	2.0
Resistance	Ω		28	150	780	38	240	925	16	95	350
Relay Specification											
Isolation contact/coil kV		17			17		17				
Insulation resistance contact											
to all terminals	all terminals Ω min (typical)		1x10 ¹⁴			1x10 ¹⁴			1x10 ¹⁴		
Environmental											
Operating Temp range °C		-20 to +70			-20 to +70			-20 to +70			

Part Numbering System



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Email:sales@cynergy3.com

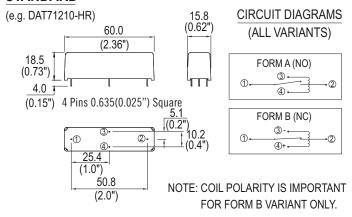
* Form B (n/c) is not available on 15kV models

ISO9001certified www.cynergy3.com

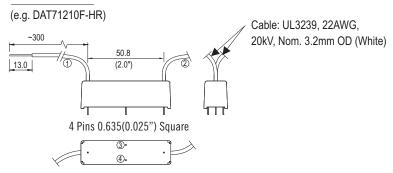


MECHANICAL

STANDARD



FLYING LEAD



NOTE: PINS WHICH ARE NOT NUMBERED HAVE NO ELECTRICAL CONNECTION.

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